

Library Sequence Search History

russel - 10 / 519524

Page 1

=> fil reg

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STRUCTURE FILE UPDATES: 25 JUN 2006 HIGHEST RN 889359-45-9
DICTIONARY FILE UPDATES: 25 JUN 2006 HIGHEST RN 889359-45-9

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TSCA INFORMATION NOW CURRENT THROUGH January 6, 2006

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*****
*
* The CA roles and document type information have been removed from *
* the IDE default display format and the ED field has been added,   *
* effective March 20, 2005. A new display format, IDERL, is now    *
* available and contains the CA role and document type information. *
*
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Structure search iteration limits have been increased. See HELP SLIMITS
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predicted properties as well as tags indicating availability of
experimental property data in the original document. For information
on property searching in REGISTRY, refer to:

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L1 ANSWER 1 OF 2 REGISTRY COPYRIGHT 2006 ACS on STN
RN 620973-82-2 REGISTRY
CN L-Glutamic acid, L-phenylalanyl-L-lysylglycyl-L- α -glutamyl-L-
glutaminyl-L-alanyl-L-prolyl-L-lysylglycyl- (9CI) (CA INDEX NAME)
OTHER NAMES:
CN 2: PN: CN1386754 SEQID: 2 claimed sequence
FS PROTEIN SEQUENCE; STEREOSEARCH
SQL 10

PATENT ANNOTATIONS (PNTE):

Sequence	Patent
Source	Reference
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Not Given	CN1386754
	claimed
	SEQID 2

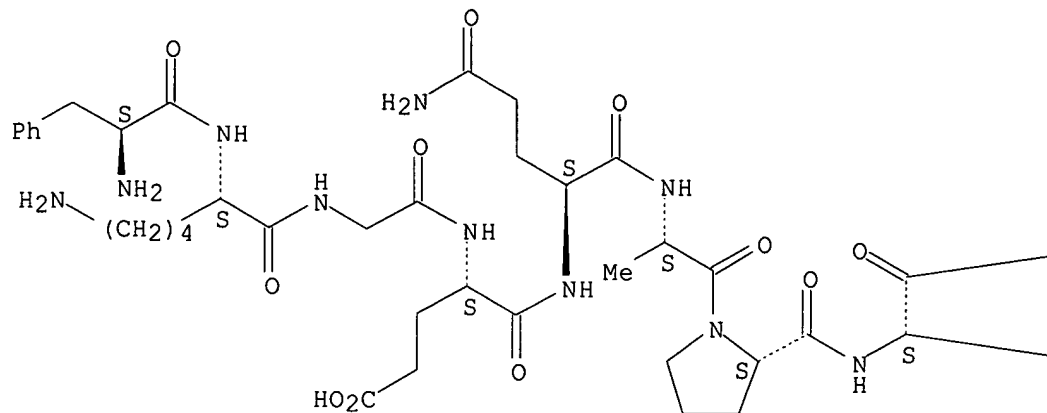
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jan delaval - 26 june 2006

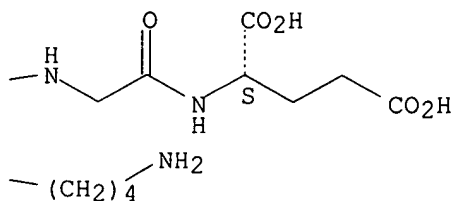
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 SR CA
 LC STN Files: CA, CAPLUS, TOXCENTER
 DT.CA CAplus document type: Journal; Patent
 RL.P Roles from patents: BIOL (Biological study); PRP (Properties); USES (Uses)
 RL.NP Roles from non-patents: BIOL (Biological study); PRP (Properties)

Absolute stereochemistry.

PAGE 1-A



PAGE 1-B



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

3 REFERENCES IN FILE CA (1907 TO DATE)
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 REFERENCE 2: 140:281378
 REFERENCE 3: 139:363392

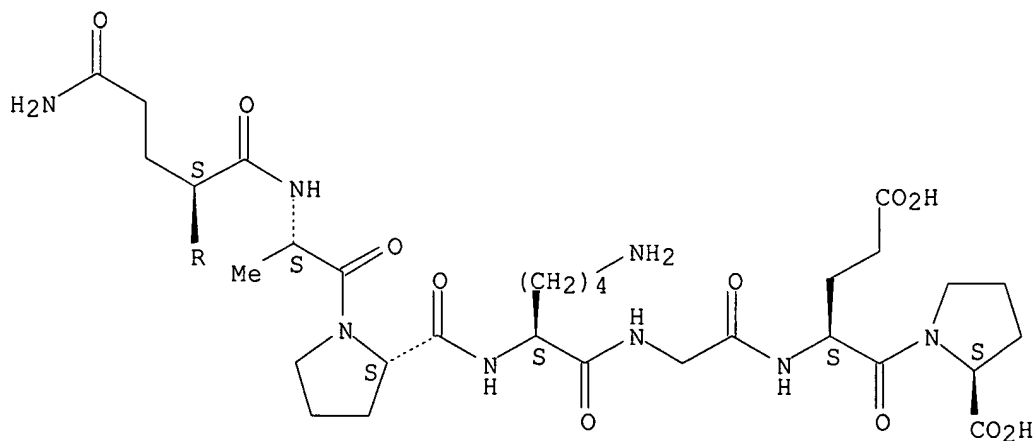
L1 ANSWER 2 OF 2 REGISTRY COPYRIGHT 2006 ACS on STN
 RN 211099-13-7 REGISTRY
 CN L-Proline, L-alanylglycyl-L-phenylalanyl-L-lysylglycyl-L- α -glutamyl-
 L-glutaminyl-L-alanyl-L-prolyl-L-lysylglycyl-L- α -glutamyl- (9CI)
 (CA INDEX NAME)
 FS PROTEIN SEQUENCE; STEREOSEARCH
 SQL 13

SEQ 1 AGFKGEQAPK GEP
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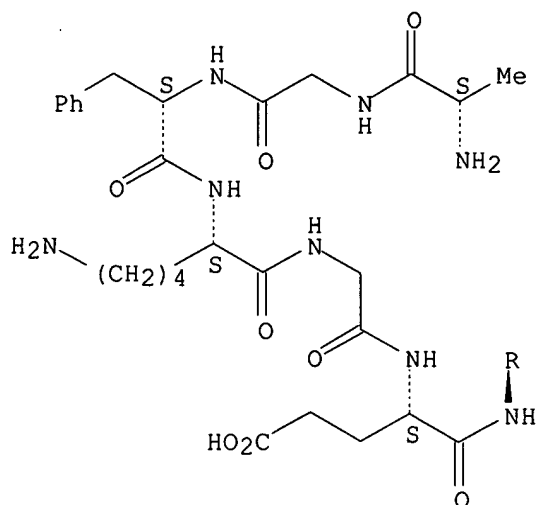
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 MF C58 H90 N16 O19
 SR CA
 LC STN Files: CA, CAPLUS, TOXCENTER
 DT.CA Caplus document type: Journal
 RL.NP Roles from non-patents: PRP (Properties)

Absolute stereochemistry.

PAGE 1-A



PAGE 2-A



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

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1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

REFERENCE 1: 129:160544

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FILE 'HCAOLD' ENTERED AT 07:54:40 ON 26 JUN 2006

L2 0 S L1

FILE 'USPATFULL' ENTERED AT 07:54:46 ON 26 JUN 2006

L3 0 S L1

FILE 'HCAPLUS' ENTERED AT 07:54:49 ON 26 JUN 2006

L4 4 S L1

L5 3 S L4 AND LI Z?/AU

L6 1 S L4 AND (WO2003-CN496 OR CN2002-123412)/AP,PRN

L7 4 S L4-L6

FILE 'REGISTRY' ENTERED AT 07:56:20 ON 26 JUN 2006

=> fil hcaplus

FILE 'HCAPLUS' ENTERED AT 07:56:29 ON 26 JUN 2006

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jan delaval - 26 june 2006

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FILE COVERS 1907 - 26 Jun 2006 VOL 145 ISS 1
FILE LAST UPDATED: 25 Jun 2006 (20060625/ED)

New CAS Information Use Policies, enter HELP USAGETERMS for details.

This file contains CAS Registry Numbers for easy and accurate substance identification.

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L7 ANSWER 1 OF 4 HCAPLUS COPYRIGHT 2006 ACS on STN
AN 2005:352633 HCAPLUS
DN 143:76700
ED Entered STN: 25 Apr 2005
TI The inhibitory effect of altered collagen II peptide on
HLA-DRB1-restricted T-cell activation
AU Cheng, Y. J.; Zhou, Q.; Li, Z. G.
CS Department of Rheumatology & Immunology, People's Hospital, Peking
University Medical School, Beijing, Peop. Rep. China
SO Scandinavian Journal of Immunology (2005), 61(3), 260-265
CODEN: SJIMAX; ISSN: 0300-9475
PB Blackwell Publishing Ltd.
DT Journal
LA English
CC 15-10 (Immunochemistry)
Section cross-reference(s): 1
AB It has been known that rheumatoid arthritis (RA)-associated antigenic
peptides CII263-272 are coupled with human leukocyte antigen (HLA)-DRB1
and recognized by T-cell receptor (TCR), which in turn induced T-cell
proliferation and pathogenesis of RA. Non-T-cell-stimulating type II
collagen (CII) peptides might be generated by removing the amino acids
responsible for TCR contact and keeping the HLA-DR-binding residues
intact. In this study, a panel of altered CII peptides (APs) with
consecutive or single substitutions of the TCR-contacting residues were
synthesized. Through peptide binding and T-cell activation assays, we
demonstrated that altered CII263-272 peptides with substitution of the
TCR-contacting residues did not or barely induced T-cell activation; one
of the best non-T-cell-stimulating peptide AP268-270 inhibited the binding
of wild-type CII263-272 to HLA-DR1 and T-cell activation triggered by
wild-type CII263-272 and HA306-318 in a dose-response manner. These data
suggest that removal of the TCR-contacting residues of CII263-272 leads to
HLA-DRB1 binding and low T-cell-stimulating peptides, which could
potentially inhibit the T-cell response induced by HLA-DRB1-binding
antigenic peptides.
ST collagen II peptide T cell activation immunosuppression HLA
IT Histocompatibility antigens
RL: BSU (Biological study, unclassified); BIOL (Biological study)
(HLA-DRB1; inhibitory effect of altered collagen II peptide on
HLA-DRB1-restricted T-cell activation)

IT Cell activation
(T cell; inhibitory effect of altered collagen II peptide on
HLA-DRB1-restricted T-cell activation)

IT T cell (lymphocyte)
(activation; inhibitory effect of altered collagen II peptide on
HLA-DRB1-restricted T-cell activation)

IT Human
Immunosuppressants
Immunosuppression
MHC restriction
Mutagenesis
(inhibitory effect of altered collagen II peptide on
HLA-DRB1-restricted T-cell activation)

IT TCR (T cell receptors)
RL: BSU (Biological study, unclassified); BIOL (Biological study)
(inhibitory effect of altered collagen II peptide on
HLA-DRB1-restricted T-cell activation)

IT Peptides, biological studies
RL: BSU (Biological study, unclassified); PAC (Pharmacological activity);
BIOL (Biological study)
(inhibitory effect of altered collagen II peptide on
HLA-DRB1-restricted T-cell activation)

IT Rheumatoid arthritis
(inhibitory effect of altered collagen II peptide on
HLA-DRB1-restricted T-cell activation in relation to rheumatoid
arthritis)

IT Collagens, biological studies
RL: BSU (Biological study, unclassified); BIOL (Biological study)
(type II; inhibitory effect of altered collagen II peptide on
HLA-DRB1-restricted T-cell activation)

IT 620973-80-0 620973-82-2 620973-84-4 620973-86-6
620973-87-7
RL: BSU (Biological study, unclassified); PAC (Pharmacological activity);
BIOL (Biological study)
(inhibitory effect of altered collagen II peptide on
HLA-DRB1-restricted T-cell activation)

RE.CNT 25 THERE ARE 25 CITED REFERENCES AVAILABLE FOR THIS RECORD
RE

- (1) Andersson, E; Proc Natl Acad Sci USA 1998, V95, P7574 HCAPLUS
- (2) Brand, D; J Immunol 1994, V152, P3088 HCAPLUS
- (3) Deighton, C; Ann Rheum Dis 1993, V52, P638 MEDLINE
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(24) Zhou, Q; Chin J Rheumatol 2003, V7, P324

(25) Zhou, Q; Hum Immunol 2003, V4(9), P857

IT 620973-82-2

RL: BSU (Biological study, unclassified); PAC (Pharmacological activity);

BIOL (Biological study)

(inhibitory effect of altered collagen II peptide on

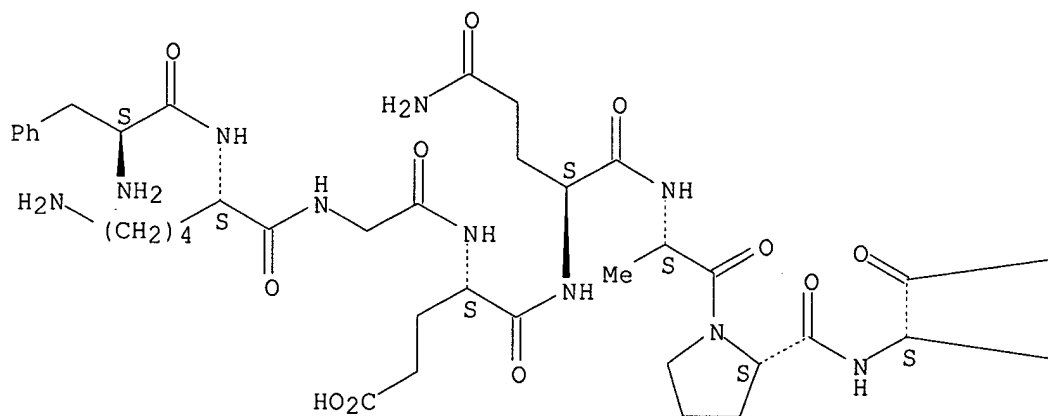
HLA-DRB1-restricted T-cell activation)

RN 620973-82-2 HCAPLUS

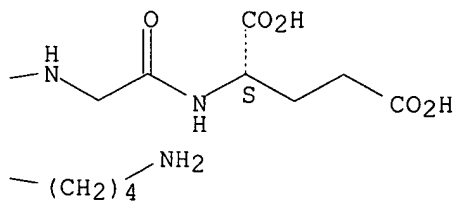
CN L-Glutamic acid, L-phenylalanyl-L-lysylglycyl-L- α -glutamyl-L-glutaminyl-L-alanyl-L-prolyl-L-lysylglycyl- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

PAGE 1-A



PAGE 1-B



L7 ANSWER 2 OF 4 HCAPLUS COPYRIGHT 2006 ACS on STN

AN 2003:958293 HCAPLUS

DN 140:281378

ED Entered STN: 09 Dec 2003

TI Non-T lymphocyte binding peptides derived from collagen type II and uses in treating rheumatoid arthritis

IN Li, Zhanguo

PA People's Hospital of Peking University, Peop. Rep. China
 SO Faming Zhuanli Shenqing Gongkai Shuomingshu, 20 pp.
 CODEN: CNXXEV
 DT Patent
 LA Chinese
 IC ICM C07K0014-435
 ICS A61K0038-17; A61P0037-02; A61P0019-02
 CC 1-7 (Pharmacology)
 Section cross-reference(s): 15

FAN.CNT 1

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	RW:			GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG		
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	EP 1541583	A1	20050615	EP 2003-739970	20030626 <--	
	R:			AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, HU, SK		
	JP 2006508901	T2	20060316	JP 2004-516425	20030626 <--	
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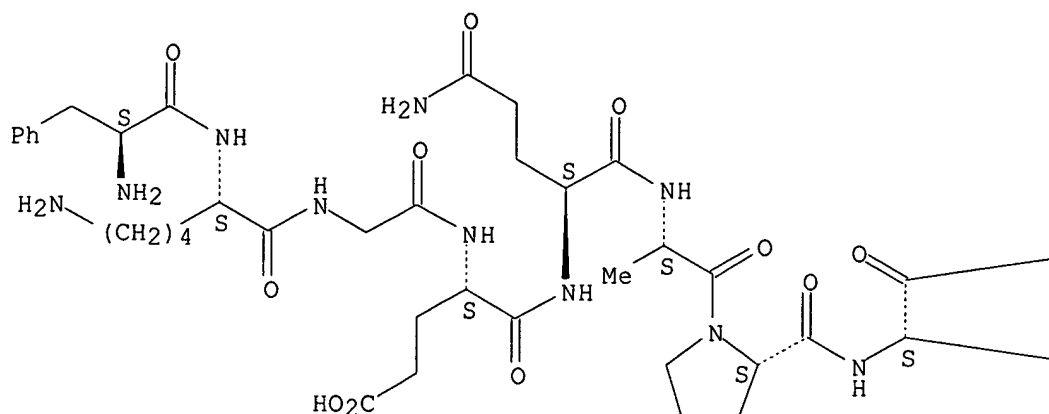
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	IPCI	C07K0014-435 [ICM,7]; A61K0038-17 [ICS,7]; A61P0037-02 [ICS,7]; A61P0037-00 [ICS,7,C*]; A61P0019-02 [ICS,7]; A61P0019-00 [ICS,7,C*]
	IPCR	A61K0038-00 [N,A]; A61K0038-00 [N,C*]; C07K0007-00 [I,C*]; C07K0007-06 [I,A]
WO 2004003007	IPCI	C07K0007-06 [ICM,7]; C07K0007-00 [ICM,7,C*]; A61K0038-08 [ICS,7]; A61P0019-02 [ICS,7]; A61P0019-00 [ICS,7,C*]; A61P0037-06 [ICS,7]; A61P0037-00 [ICS,7,C*]
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AU 2003280443	IPCI	C07K0007-06 [ICM,7]; C07K0007-00 [ICM,7,C*]; A61K0038-08 [ICS,7]; A61P0019-02 [ICS,7]; A61P0019-00 [ICS,7,C*]; A61P0037-06 [ICS,7]; A61P0037-00 [ICS,7,C*]
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4H045/EA20; 4H045/FA20

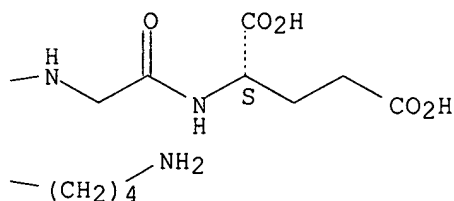
- AB The invention provides the amino acid sequences of 7 non-T lymphocyte binding peptides derived from collagen type II, which contain the consensus sequence and may be recognized only by HLA-DR β 1 but not by T lymphocyte receptors. The non-T lymphocyte binding peptides bind to target consensus sequence QK/RRAA. The invention relates to uses of the non-T lymphocyte binding peptides for treating rheumatoid arthritis. The invention further relates to construction of rat model with CIA collagens induced arthritis and treating CIA with non-T lymphocyte binding peptides.
- ST non T lymphocyte binding peptide rheumatoid arthritis therapy; T cell activation HLA DR1 DR4 peptide rheumatoid arthritis
- IT Histocompatibility antigens
RL: BSU (Biological study, unclassified); BIOL (Biological study) (HLA-DR1, peptides binding to; non-T lymphocyte binding peptides derived from collagen type II and uses in treating rheumatoid arthritis)
- IT Histocompatibility antigens
RL: BSU (Biological study, unclassified); BIOL (Biological study) (HLA-DR4, peptides binding to; non-T lymphocyte binding peptides derived from collagen type II and uses in treating rheumatoid arthritis)
- IT Cell activation
(T cell, inhibition of; non-T lymphocyte binding peptides derived from collagen type II and uses in treating rheumatoid arthritis)
- IT T cell (lymphocyte)
(activation, inhibition of; non-T lymphocyte binding peptides derived from collagen type II and uses in treating rheumatoid arthritis)
- IT Disease models
(collagens induced arthritis; non-T lymphocyte binding peptides derived from collagen type II and uses in treating rheumatoid arthritis)
- IT Antirheumatic agents
Rheumatoid arthritis
(non-T lymphocyte binding peptides derived from collagen type II and uses in treating rheumatoid arthritis)
- IT Peptides, biological studies
RL: BSU (Biological study, unclassified); PRP (Properties); THU (Therapeutic use); BIOL (Biological study); USES (Uses)
(non-T lymphocyte binding peptides derived from collagen type II and uses in treating rheumatoid arthritis)
- IT Collagens, biological studies
RL: BSU (Biological study, unclassified); BIOL (Biological study) (type II; non-T lymphocyte binding peptides derived from collagen type II and uses in treating rheumatoid arthritis)
- IT 620973-81-1 **620973-82-2** 620973-83-3 620973-84-4
620973-85-5 620973-86-6 620973-87-7
RL: BSU (Biological study, unclassified); PRP (Properties); THU (Therapeutic use); BIOL (Biological study); USES (Uses)
(non-T lymphocyte binding peptide; non-T lymphocyte binding peptides derived from collagen type II and uses in treating rheumatoid arthritis)
- IT **620973-82-2**
RL: BSU (Biological study, unclassified); PRP (Properties); THU (Therapeutic use); BIOL (Biological study); USES (Uses)
(non-T lymphocyte binding peptide; non-T lymphocyte binding peptides derived from collagen type II and uses in treating rheumatoid arthritis)
- RN 620973-82-2 HCAPLUS
- CN L-Glutamic acid, L-phenylalanyl-L-lysylglycyl-L- α -glutamyl-L-glutaminyl-L-alanyl-L-prolyl-L-lysylglycyl- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

PAGE 1-A



PAGE 1-B



L7 ANSWER 3 OF 4 HCAPLUS COPYRIGHT 2006 ACS on STN
 AN 2003:668434 HCAPLUS
 DN 139:363392
 ED Entered STN: 27 Aug 2003
 TI Inhibition of T-cell activation with HLA-DR1/DR4 restricted non-T-cell
 stimulating peptides
 AU Zhou, Qiang; Cheng, Yongjing; Lu, Houshan; Zhou, Weihong; Li,
 Zhanguo
 CS People's Hospital, Arthritis Research Institute, Department of
 Rheumatology and Immunology (Q.Z., Y.C., H.L, Z.L.), Peking University
 Medical School, Beijing, Peop. Rep. China
 SO Human Immunology (2003), 64(9), 857-865
 CODEN: HUIMDQ; ISSN: 0198-8859
 PB Elsevier Science Inc.
 DT Journal
 LA English
 CC 15-8 (Immunochemistry)
 AB It has been reported that collagen II (CII) derived peptide CII263-272

induced T-cell activation via its amino acids responsible for T-cell receptor (TCR) recognition. The impact of substitution of the TCR contacting amino acids of CII263-272 on T-cell activation was evaluated using a panel of altered CII263-272 peptides. Computer modeling revealed that the side chains of 263F and 266E in CII263-272 were coupled with amino acids on $\alpha 1$ and $\beta 1$ chains of HLA-DR1 or -DR4, mainly via hydrogen bonds, whereas the side chains of 267Q and 270K protrude out of the cleft and might be recognized by TCR. Intracellular delivery of the altered peptides, and their binding to HLA-DR1 and -DR4 mols. on cell surface, were demonstrated by confocal microscopy and flow cytometry. The results also revealed that the substitution of 267Q, 268G, 269P, and 270K individually or consecutively by alanine (A) or glycine (G) led to weak or non-T-cell responses. Furthermore, the altered peptides with 270K substitution (270A) or with consecutive substitution of 268G, 269P, and 270K (sub268-270) dramatically inhibited T-cell activation. It is suggested that the altered peptides derived from CII263-272 with substitution of amino acids responsible for TCR contact might be of inhibitory effect on T-cell responses.

ST T cell activation HLA DR1 DR4 peptide rheumatoid arthritis
 IT Histocompatibility antigens
 RL: BSU (Biological study, unclassified); BIOL (Biological study)
 (HLA-DR1; T-cell activation inhibition with HLA-DR1/DR4 restricted
 non-T-cell stimulating peptides derived from collagen type II)
 IT Histocompatibility antigens
 RL: BSU (Biological study, unclassified); BIOL (Biological study)
 (HLA-DR4; T-cell activation inhibition with HLA-DR1/DR4 restricted
 non-T-cell stimulating peptides derived from collagen type II)
 IT Structure-activity relationship
 (T cell-inhibiting; T-cell activation inhibition with HLA-DR1/DR4
 restricted non-T-cell stimulating peptides derived from collagen type
 II)
 IT Peptides, biological studies
 TCR (T cell receptors)
 RL: BSU (Biological study, unclassified); BIOL (Biological study)
 (T-cell activation inhibition with HLA-DR1/DR4 restricted non-T-cell
 stimulating peptides derived from collagen type II)
 IT Human
 Rheumatoid arthritis
 (T-cell activation inhibition with HLA-DR1/DR4 restricted non-T-cell
 stimulating peptides derived from collagen type II in relation to
 rheumatoid arthritis therapy)
 IT T cell (lymphocyte)
 (activation; T-cell activation inhibition with HLA-DR1/DR4 restricted
 non-T-cell stimulating peptides derived from collagen type II)
 IT Collagens, biological studies
 RL: BSU (Biological study, unclassified); BIOL (Biological study)
 (type II; T-cell activation inhibition with HLA-DR1/DR4 restricted
 non-T-cell stimulating peptides derived from collagen type II)
 IT 620973-80-0 620973-81-1 **620973-82-2** 620973-83-3
 620973-84-4 620973-85-5 620973-86-6 620973-87-7
 RL: BSU (Biological study, unclassified); PRP (Properties); BIOL
 (Biological study)
 (T-cell activation inhibition with HLA-DR1/DR4 restricted non-T-cell
 stimulating peptides derived from collagen type II)

RE.CNT 37 THERE ARE 37 CITED REFERENCES AVAILABLE FOR THIS RECORD

RE

- (1) Aharoni, R; Eur J Immunol 1993, V23, P17 HCAPLUS
- (2) Andersson, E; Proc Natl Acad Sci USA 1998, V95, P7574 HCAPLUS
- (3) Deighton, C; Ann Rheum Dis 1993, V52, P638 MEDLINE
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IT 620973-82-2

RL: BSU (Biological study, unclassified); PRP (Properties); BIOL
(Biological study)

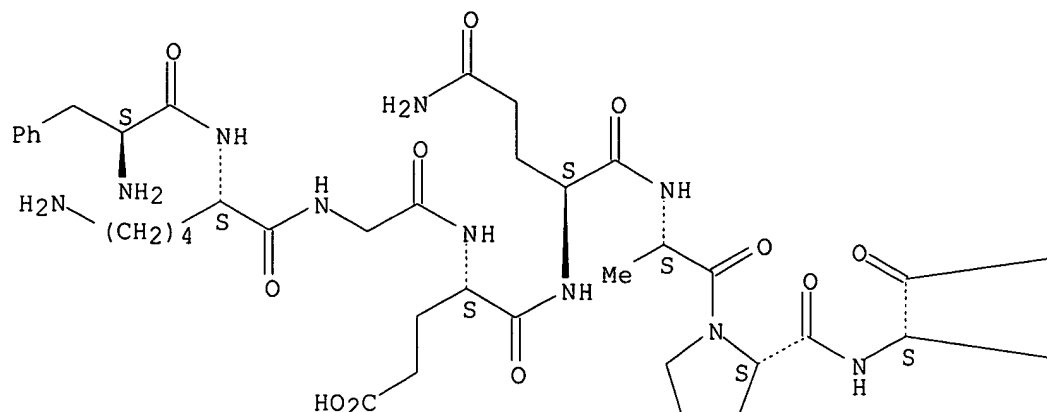
(T-cell activation inhibition with HLA-DR1/DR4 restricted non-T-cell
stimulating peptides derived from collagen type II)

RN 620973-82-2 HCAPLUS

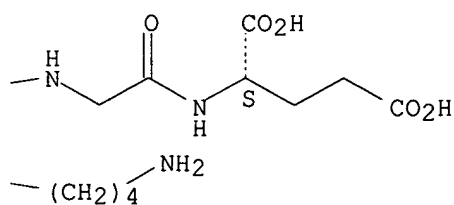
CN L-Glutamic acid, L-phenylalanyl-L-lysylglycyl-L- α -glutamyl-L-
glutaminyl-L-alanyl-L-prolyl-L-lysylglycyl- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

PAGE 1-A



PAGE 1-B



L7 ANSWER 4 OF 4 HCAPLUS COPYRIGHT 2006 ACS on STN
 AN 1998:414290 HCAPLUS
 DN 129:160544
 ED Entered STN: 08 Jul 1998
 TI Definition of MHC and T cell receptor contacts in the HLA-DR4-restricted immunodominant epitope in type II collagen and characterization of collagen-induced arthritis in HLA-DR4 and human CD4 transgenic mice
 AU Andersson, Ellen Christina; Hansen, Bjarke Endel; Jacobsen, Helle; Madsen, Lars S.; Andersen, Claus B.; Engberg, Jan; Rothbard, Jonathan B.; Sonderstrup McDevitt, Grete; Malmstrom, Vivianne; Holmdahl, Rikard; Svejgaard, Arne; Fugger, Lars
 CS Department of Clinical Immunology, Rigshospitalet, Copenhagen, 2200 N, Den.
 SO Proceedings of the National Academy of Sciences of the United States of America (1998), 95(13), 7574-7579
 CODEN: PNASA6; ISSN: 0027-8424
 PB National Academy of Sciences
 DT Journal
 LA English
 CC 15-8 (Immunochemistry)

AB Rheumatoid arthritis (RA) is an autoimmune disease associated with the HLA-DR4 and -DR1 alleles. The target autoantigen(s) in RA is unknown, but type II collagen (CII) is a candidate, and the DR4- and DR1- restricted immunodominant T cell epitope in this protein corresponds to amino acids 261-273 (CII 261-273). The authors have defined MHC and T cell receptor contacts in CII 261-273 and provide strong evidence that this peptide corresponds to the peptide binding specificity previously found for RA-associated DR mols. Moreover, they demonstrate that HLA-DR4 and human CD4 transgenic mice homozygous for the I-Ab β 0 mutation are highly susceptible to collagen-induced arthritis and describe the clin. course and histopathol. changes in the affected joints.

ST MHC TCR contact epitope II collagen

IT Histocompatibility antigens
 RL: BOC (Biological occurrence); BSU (Biological study, unclassified); BIOL (Biological study); OCCU (Occurrence)
 (HLA-DR1; MHC and TCR receptor contacts in HLA-DR4-restricted immunodominant epitope in type II collagen and characterization of collagen-induced arthritis in HLA-DR4 and human CD4 transgenic mice)

IT Histocompatibility antigens
 RL: BOC (Biological occurrence); BSU (Biological study, unclassified); BIOL (Biological study); OCCU (Occurrence)
 (HLA-DR4; MHC and TCR receptor contacts in HLA-DR4-restricted immunodominant epitope in type II collagen and characterization of collagen-induced arthritis in HLA-DR4 and human CD4 transgenic mice)

IT Epitopes
 Rheumatoid arthritis
 T cell (lymphocyte)
 (MHC and TCR receptor contacts in HLA-DR4-restricted immunodominant epitope in type II collagen and characterization of collagen-induced arthritis in HLA-DR4 and human CD4 transgenic mice)

IT CD4 (antigen)
 TCR (T cell receptors)
 RL: BOC (Biological occurrence); BSU (Biological study, unclassified); BIOL (Biological study); OCCU (Occurrence)
 (MHC and TCR receptor contacts in HLA-DR4-restricted immunodominant epitope in type II collagen and characterization of collagen-induced arthritis in HLA-DR4 and human CD4 transgenic mice)

IT Arthritis
 Arthritis
 (autoimmune, collagen-induced; MHC and TCR receptor contacts in HLA-DR4-restricted immunodominant epitope in type II collagen and characterization of collagen-induced arthritis in HLA-DR4 and human CD4 transgenic mice)

IT Collagens, biological studies
 RL: ADV (Adverse effect, including toxicity); BIOL (Biological study)
 (type II; MHC and TCR receptor contacts in HLA-DR4-restricted immunodominant epitope in type II collagen and characterization of collagen-induced arthritis in HLA-DR4 and human CD4 transgenic mice)

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 211099-10-4 211099-11-5 **211099-13-7** 211099-14-8
 211099-15-9 211099-16-0 211099-17-1 211099-18-2 211099-19-3
 211099-20-6 211099-21-7 211099-22-8 211099-23-9 211099-24-0
 RL: PRP (Properties)
 (MHC and TCR receptor contacts in HLA-DR4-restricted immunodominant epitope in type II collagen and characterization of collagen-induced arthritis in HLA-DR4 and human CD4 transgenic mice)

RE.CNT 37 THERE ARE 37 CITED REFERENCES AVAILABLE FOR THIS RECORD

RE
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- (37) Zanelli, E; Proc Natl Acad Sci USA 1996, V93, P1814 HCAPLUS

IT 211099-13-7

RL: PRP (Properties)

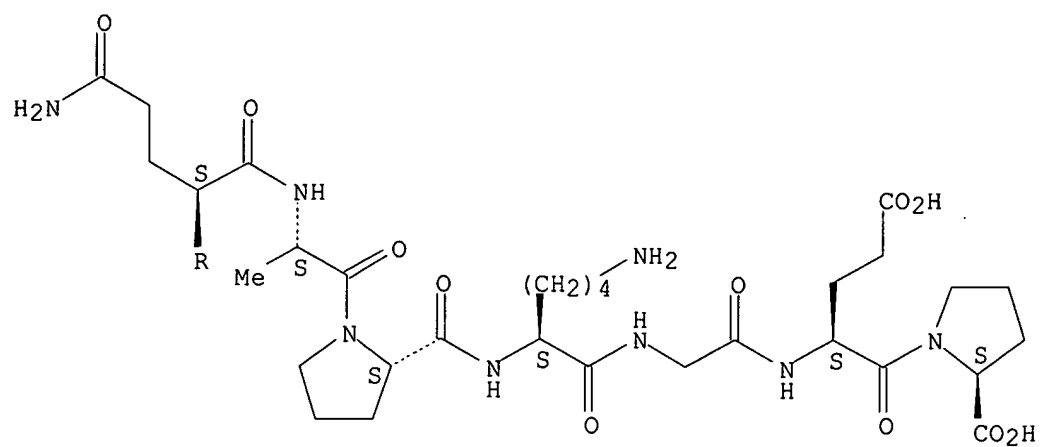
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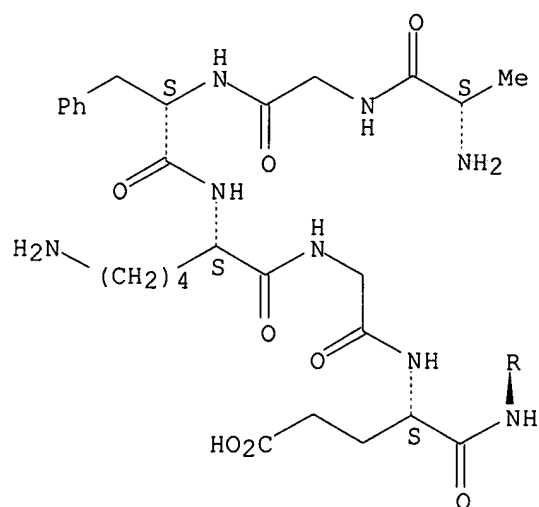
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(CA INDEX NAME)

Absolute stereochemistry.

PAGE 1-A



PAGE 2-A

 \Rightarrow

GenCore version 5.1.1.9
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protein - protein search, using sw model

on: June 23, 2006, 21:08:50 ; Search time 39 Seconds
(without alignments)
24.671 Million cell updates/sec

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Maximum Match 100%

Listing first 45 summaries

abase :

PIR80:**

1: pir1:**

2: pir2:**

3: pir3:**

4: pir4:**

Pred. No. is the number of results predicted by chance to have a
score greater than or equal to the score of the result being printed,
and is derived by analysis of the total score distribution.

SUMMARIES

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2	50	92.6	673	1 CGBO6C	collagen alpha 1(I
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4	50	92.6	1486	1 B40333	collagen alpha 1(I
5	50	92.6	1487	1 CGHU6C	collagen alpha 1(I
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8	45	83.3	1492	2 A40333	collagen alpha 1(I
9	44	81.5	1496	1 CGHU2V	collagen alpha 2(V
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12	39	72.2	2551	2 B98047	hypothetical prote
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26	37	68.5	272	2 D36802	IR6 protein - equi
27	37	68.5	395	2 C75170	molybdenum cofacto
28	37	68.5	458	2 S45424	ALG3 protein - yea
29	37	68.5	880	2 B86896	valine-tRNA ligase

30 37 68.5 1388 2 A53317 collagen alpha 1(X
31 36 66.7 89 1 NSBOH7 nonhistone chromos
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34 36 66.7 90 2 S03700 nonhistone chromos
35 36 66.7 90 2 S01946 nonhistone chromos
36 36 66.7 396 2 T29773 hypothetical prote
37 36 66.7 635 2 A57131 collagen alpha 2(V
38 36 66.7 843 2 T13334 probable tail-host
39 36 66.7 920 2 B34493 collagen alpha 1(I
40 36 66.7 1691 1 CGHU6B collagen alpha 6(I
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43 35 64.8 181 2 T13518 hypothetical prote
44 35 64.8 261 2 AB3070 conserved hypothet
45 35 64.8 287 2 T22637 hypothetical prote

ALIGNMENTS

RESULT 1

I60384

Gene Tl protein - rat (fragment)

C:Species: Rattus norvegicus (Norway rat)

C>Date: 02-Aug-1996 #sequence_revision 02-Aug-1996 #text_change 31-Dec-2004

C:Accession: I60384

R:Michaelsson, E.; Malmstrom, V.; Reis, S.; Engstrom, A.; Burkhardt, H.; Holmdahl, R.

J. Exp. Med. 180, 745-749, 1994

A>Title: T cell recognition of carbohydrates on type II collagen.

A:Reference number: I60384; MUID:94321934; PMID:8046350

A:Accession: I60384

A:Status: preliminary; translated from GB/EMBL/DBJ

A:Molecule type: mRNA

A:Residues: 1-53 <RES>

C:Cross-references: UNIPROT:Q63123; UNIPARC:UPI000014D4B6; EMBL:X79816; NID:9531375; PID:

C:Genetics:

A:Gene: Tl

C:Superfamily: fibrillar collagen carboxyl-terminal homology; von Willebrand factor type

Query Match 92.6%; Score 50; DB 2; Length 53;

Best Local Similarity 90.0%; Pred. No. 0.014; 1; Indels 0; Gaps 0;

Matches 9; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

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Db 26 FKGEQGPKE 35

RESULT 2

CGBO6C

collagen alpha 1(II) chain precursor - bovine (tentative sequence) (fragments)

C:Species: Bos primigenius taurus (cattle)

C>Date: 24-Apr-1984 #sequence_revision 17-May-1996 #text_change 09-Jul-2004

C:Accession: A90369; A90396; A92210; S03940; A90189; A05039; A02859

R:Miller, E.J.; Lunde, L.G.

Biochemistry 12, 3153-3159, 1973

A>Title: Isolation and characterization of the cyanogen bromide peptides from the alpha 1

A:Reference number: A90369; MUID:73258693; PMID:4732855

A:Contents: composition of CNBr1 and CNBr4

A:Accession: A90369

A:Molecule type: protein

A:Residues: 1-15 <ML>

A:Cross-references: UNIPROT:P02459; UNIPARC:UPI0000173B79

A:Experimental source: cartilage

A>Note: residues positioned by comparison with human alpha 1(II) chain

R:Butler, W.F.; Miller, E.J.; Finch Jr., J.E.

Biochemistry 15, 3000-3006, 1976

A>Title: The covalent structure of cartilage collagen. Amino acid sequence of the NH-2-ter

A:Reference number: A90396; MUID:76253504; PMID:782511

A:Contents: fragments CNBr2 (16-18), CNBr3 (19-21), CNBr6 (22-54), CNBr12 (55-138), and t

A:Accession: A90396

A:Molecule type: protein

GULT 3
 4467
 collagen alpha 1(II) chain precursor [imported] - horse
 alternate names: type II collagen
 species: Equus caballus (domestic horse)
 date: 31-Jan-2000 #sequence revision 31-Jan-2000 #text_change 09-Jul-2004
 accession: T45467
 richardson, D.W.; Dodge, G.R.
 submitted to the EMBL Data Library, June 1996
 description: Cloning of equine type II collagen and modulation of its expression in eq
 reference number: Z22977
 accession: T45467
 status: preliminary; translated from GB/EMBL/DBD

GenCore version 5.1.9
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protein - protein search, using sw model

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(without alignments)
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fect score: 54

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ring table: BLOSUM62

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tal number of hits satisfying chosen parameters: 2849598

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Maximum Match 100%

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1: uniprot_sprot.*

2: uniprot_trembl.*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

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2	50	92.6	1269	2	P02459 bos taurus
3	50	92.6	1418	1	Q7T227 CHICK
4	50	92.6	1418	1	Q02A1_HUMAN
5	50	92.6	1418	2	Q28396 HORSE
6	50	92.6	1419	1	Q9W7R9 CTNPF
7	50	92.6	1420	2	Q02A1_FAT
8	50	92.6	1486	2	Q90W37 CHICK
9	50	92.6	1486	2	Q7ZT16 XENLA
10	50	92.6	1487	2	Q14047 HUMAN
11	50	92.6	1487	2	Q77753 CANFA
12	47	87.0	1419	2	Q80VY3 MOUSE
13	47	87.0	1419	2	Q80X38 MOUSE
14	47	87.0	1442	2	Q62031 MOUSE
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21	45	83.3	1492	2	Q6P422 XENLA
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27	44	81.5	1477	2	Q3TVR2 MOUSE
28	44	81.5	1491	2	Q2LDAL BRARE
29	44	81.5	1496	1	COSAA2_HUMAN
30	44	81.5	1496	2	Q53WR4 HUMAN
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35	44	81.5	1497	2	Q7TMS0_MOUSE
36	44	81.5	1499	2	Q59IP2_PIG
37	44	81.5	1502	2	Q59GR4_HUMAN
38	43	79.6	270	2	Q6UXZ1_HUMAN
39	43	79.6	280	2	Q9DAG8_MOUSE
40	43	79.6	283	2	Q8R330_MOUSE
41	43	79.6	357	2	Q7Z4A1_HUMAN
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43	43	79.6	387	2	Q8BZ22_MOUSE
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ALIGNMENTS

RESULT 1

CO2A1_BOVIN STANDARD; PRT; 747 AA.
AC P02459; Q28070; Q9XT24;
DT 21-JUL-1986, integrated into UniProtKB/Swiss-Prot.
DT 30-MAY-2000, sequence version 3.
DT 07-FEB-2006, entry version 63.
DE Collagen alpha-1(II) chain precursor (Fragments).
GN Name=COL2A1;
OS Bos taurus (Bovine).
OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
OC Mammalia; Eutheria; Laurasiatheria; Cetartiodactyla; Ruminantia;
OC Pecora; Bovidae; Bovinae; Bos.
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RN PROTEIN SEQUENCE OF 1-15.
RC TISSUE=Cartilage;
RX MEDLINE=73258693; PubMed=4732855;
RA Miller E.J., Lunde L.G.;
RT "Isolation and characterization of the cyanogen bromide peptides from the alpha 1(II) chain of bovine and human cartilage collagen.";
RL Biochemistry 12:3153-3159(1973).
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RC TISSUE=Cartilage;
RX MEDLINE=76253504; PubMed=782511;
RA Butler W.T., Miller E.J., Finch J.E. Jr.;
RT "The covalent structure of cartilage collagen. Amino acid sequence of the NH2-terminal helical portion of the alpha 1 (II) chain.";
RL Biochemistry 15:3000-3006(1976).
RN [3]
RP PROTEIN SEQUENCE OF 139-198, AND VARIANTS ALA-143 AND LEU-164.
RC TISSUE=Cartilage;
RX MEDLINE=77093864; PubMed=833147;
RA Butler W.T., Finch J.E. Jr., Miller E.J.;
RT "The covalent structure of cartilage collagen. Evidence for sequence heterogeneity of bovine alpha1(II) chains.";
RL J. Biol. Chem. 252:639-643(1977).
RN [4]
RP PROTEIN SEQUENCE OF 139-417.
RC TISSUE=Cartilage;
RX MEDLINE=89231683; PubMed=2714276;
RA Seyer J.M., Hastey K.A., Kang A.H.;
RT "Covalent structure of collagen. Amino acid sequence of an arthrogenic cyanogen bromide peptide from type II collagen of bovine cartilage.";
RL Eur. J. Biochem. 181:159-173(1989).
RN [5]
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RX MEDLINE=74163168; PubMed=4857180;
RA Butler W.T., Miller E.J., Finch J.E. Jr., Inagami T.;


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4 Best Local Similarity 90.0%; Pred. No. 0.044;
5 Matches 9; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
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8 |||||
9 3 FKGEQGPKE 12
10
11 RESULT 2
12 AY58994
13 AY58994 standard; peptide; 13 AA.
14 AY58994;
15 23-MAY-2000 (first entry)
16 Type II collagen peptide 261-273.
17 Collagen; antigen; autoimmune disease; multiple sclerosis;
18 autoimmune haemolytic anaemia; autoimmune uveoretinitis;
19 autoimmune thyroiditis; colitis; autoimmune uveoretinitis;
20 chronic immune thrombocytopenic purpura; contact sensitivity disease;
21 diabetes mellitus; Graves disease; Guillain-Barre's syndrome;
22 Hashimoto's disease; idiopathic myxedema; myasthenia gravis; psoriasis;
23 pemphigus vulgaris; rheumatoid arthritis; systemic lupus erythematosus;
24 immunosuppressant; neuroprotective; anti-anaemic; antithyroid;
25 antidiabetic; thyromimetic; antipsoriatic; antirheumatic; antiarthritic;
26 dermatological; antiinflammatory; therapy;
27 major histocompatibility complex; MHC class II; human lymphocyte antigen;
28 HLA-DR.
29 Unidentified.
30 WO200005250-A1.
31 03-FEB-2000.
32 23-JUL-1999; 99WO-US016747.
33 23-JUL-1998; 98US-0093859P.
34 25-SEP-1998; 98US-0101825P.
35 02-OCT-1998; 98US-0102960P.
36 12-NOV-1998; 98US-0108184P.
37 09-MAR-1999; 99US-0123675P.
38 (YEDA ) YEDA RES & DEV CO LTD.
39 (HARD ) HARVARD COLLEGE.
40 Aharoni R, Teitelbaum D, Arnon R, Sela M, Fridkis-Hareli M;
41 Strominger JL;
42 WPI; 2000-182641/16.
43 New terpolymers, copeptides and copolymer 1 which contain three amino
44 acids randomly joined in a linear array where one is aromatic, one is
45 aliphatic and the other is charged, used to treat autoimmune diseases.
46 Example 11; Page 67; 147pp; English.
47 The present sequence represents type II collagen peptide 261-273. The
48 peptide was used in the design of copeptides (see AY58956-88) that show
49 a high affinity for MHC class II proteins associated with an autoimmune
50 disease, especially HLA-DR1, HLA-DR2 or HLA-DR4, bind to antigen
51 presenting cells, and inhibit T cell responses. The copeptides are used
52 to treat multiple sclerosis, autoimmune haemolytic anaemia, autoimmune
53 oophoritis, autoimmune thyroiditis, autoimmune uveoretinitis, chronic
54 immune thrombocytopenic purpura, colitis, contact sensitivity disease,
55 diabetes mellitus, Graves disease, Guillain-Barre's syndrome, Hashimoto's
56 disease, idiopathic myxedema, myasthenia gravis, psoriasis, pemphigus
57
58 CC vulgaris, rheumatoid arthritis and systemic lupus erythematosus (all
59 CC claimed)
60 XX
61 SQ Sequence 13 AA;
62
63 Query Match 92.6%; Score 50; DB 3; Length 13;
64 Best Local Similarity 90.0%; Pred. No. 0.044;
65 Matches 9; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
66
67 QY 1 FKGEQAPKGE 10
68 |||||
69 Db 3 FKGEQGPKE 12
70
71 RESULT 3
72 AY82065
73 ID AY82065 standard; peptide; 13 AA.
74 XX
75 AC AY82065;
76 XX
77 DT 01-JUN-2000 (first entry)
78 XX
79 DE Collagen II (CII) peptide 261-273 SEQ ID NO:2.
80 XX
81 KW MHC class II; major histocompatibility complex; autoimmune disease;
82 inflammatory disease; binding; rheumatoid arthritis; antiinflammatory;
83 antiarthritic; multiple sclerosis.
84 XX
85 OS Synthetic.
86 XX
87 PN WO200005249-A2.
88 XX
89 PD 03-FEB-2000.
90 XX
91 PF 22-JUL-1999; 99WO-US016617.
92 XX
93 PR 23-JUL-1998; 98US-0093859P.
94 PR 09-MAR-1999; 99US-0123675P.
95 XX
96 PA (HARD ) HARVARD COLLEGE.
97 XX
98 PI Strominger JL, Fridkis-Hareli M;
99 XX
100 WPI; 2000-205374/18.
101 XX
102 PT New synthetic peptide, useful for treating autoimmune disease, e.g.
103 PT rheumatoid arthritis.
104 XX
105 PS Example 1; Page 19; 57pp; English.
106 XX
107 CC The present invention describes synthetic peptides having an amino acid
108 CC sequence comprising at least 3 residues selected from the group of amino
109 CC acids consisting of aromatic acids, negatively charged amino acids,
110 CC positively charged amino acids, and aliphatic amino acids, the synthetic
111 CC peptides being at least 7 amino acid residues in length and capable of
112 CC binding to a major histocompatibility complex (MHC) class II protein
113 CC associated with an autoimmune disease. The synthetic peptides have anti-
114 CC inflammatory and anti-arthritic activities. They are used to treat
115 CC inflammatory and demyelinating autoimmune diseases, especially rheumatoid
116 CC arthritis and multiple sclerosis. The peptides are specific for
117 CC particular MHC class II alleles. Purified, short and synthetic peptides
118 CC should have fewer side effects than mixtures of random peptides; may
119 CC include many repeats of the active sequence and/or contain amino acid
120 CC analogues that improve stability (or other desired features). AY82021 to
121 CC AY82044 represent specifically claimed peptide sequences which can be
122 CC used as part of the synthetic peptides of the present invention; AY82045
123 CC to AY82063 represent specifically claimed examples of the synthetic
124 CC peptides from the present invention; and AY82064 to AY82080 represent
125 CC other peptides used in the exemplification of the present invention
126
127 SQ Sequence 13 AA;
128
129 Query Match 92.6%; Score 50; DB 3; Length 13;
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protein - protein search, using sw model

n on: June 23, 2006, 21:25:52 ; Search time 184 Seconds
(without alignments)

25.175 Million cell updates/sec

US-10-519-524-2

rfect score: 54

quence: 1 FKGEQAPKGE 10

oring table: BLOSUM62

Gapop 10.0 , Gapext 0.5

arched: 2097797 seqs, 463214858 residues

tal number of hits satisfying chosen parameters: 2097797

nimum DB seq length: 0

ximum DB seq length: 2000000000

st-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

tabase : Published Applications AA Main:*

- 1: /EMC_Celerra_SID33/ptodata/2/pubpaa/US07_PUBCOMB.pep:*
- 2: /EMC_Celerra_SID33/ptodata/2/pubpaa/US08_PUBCOMB.pep:*
- 3: /EMC_Celerra_SID33/ptodata/2/pubpaa/US09_PUBCOMB.pep:*
- 4: /EMC_Celerra_SID33/ptodata/2/pubpaa/US10A_PUBCOMB.pep:*
- 5: /EMC_Celerra_SID33/ptodata/2/pubpaa/US10B_PUBCOMB.pep:*
- 6: /EMC_Celerra_SID33/ptodata/2/pubpaa/US11_PUBCOMB.pep:*

pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

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1	50	92.6	13	3	US-09-768-872-3
2	50	92.6	13	4	US-10-438-538-2
3	50	92.6	15	4	US-10-438-538-3
4	50	92.6	16	4	US-10-194-441A-6
5	50	92.6	16	4	US-10-194-441A-27
6	50	92.6	18	4	US-10-194-441A-57
7	50	92.6	19	5	US-10-503-575-124
8	50	92.6	30	4	US-10-194-441A-37
9	50	92.6	33	4	US-10-194-441A-59
10	50	92.6	33	4	US-10-194-441A-80
11	50	92.6	33	4	US-10-194-441A-87
12	50	92.6	35	4	US-10-194-441A-58
13	50	92.6	35	4	US-10-194-441A-81
14	50	92.6	36	4	US-10-194-441A-78
15	50	92.6	37	4	US-10-194-441A-42
16	50	92.6	37	4	US-10-194-441A-77
17	50	92.6	37	4	US-10-194-441A-62
18	50	92.6	40	4	US-10-194-441A-84
19	50	92.6	41	4	US-10-194-441A-86
20	50	92.6	45	4	US-10-194-441A-43
21	50	92.6	48	4	US-10-194-441A-63
22	50	92.6	48	4	US-10-194-441A-79
23	50	92.6	60	6	US-11-202-057-15
24	50	92.6	492	4	US-10-639-286-11
25	50	92.6	1014	4	US-10-194-441A-1
26	50	92.6	1017	4	US-10-639-286-10
27	50	92.6	1418	4	US-10-058-124-20

Sequence 5, Appli
Sequence 4739, Ap
Sequence 3, Appli
Sequence 5, Appli
Sequence 7, Appli
Sequence 48, Appli
Sequence 6, Appli
Sequence 70, Appli
Sequence 35, Appli
Sequence 74, Appli
Sequence 22, Appli
Sequence 248, App
Sequence 500, App
Sequence 589, App
Sequence 1194, Ap
Sequence 35, Appli
Sequence 23, Appli
Sequence 472, App

ALIGNMENTS

RESULT 1
US-09-768-872-3
; Sequence 3, Application US/09768872
; Patent No. US20020055466A1
; GENERAL INFORMATION:
; APPLICANT: Aharoni, Rina
; APPLICANT: Teitelbaum, Dvora
; APPLICANT: Arnon, Ruth
; APPLICANT: Sela, Michael
; APPLICANT: Fridkis-Harelli, Masha
; APPLICANT: Strominger, Jack
; TITLE OF INVENTION: Treatment of Autoimmune Conditions with Copolymer 1
; TITLE OF INVENTION: and Related Copolymers and Peptides
; FILE REFERENCE: 1662/493762
; CURRENT APPLICATION NUMBER: US/09/768,872
; PRIOR FILING DATE: 2001-01-23
; PRIOR APPLICATION NUMBER: US 60/093,859
; PRIOR FILING DATE: 1998-07-23
; PRIOR APPLICATION NUMBER: US 60/101,825
; PRIOR FILING DATE: 1998-09-25
; PRIOR APPLICATION NUMBER: US 60/102,960
; PRIOR FILING DATE: 1998-10-02
; PRIOR APPLICATION NUMBER: US 60/106,350
; PRIOR FILING DATE: 1998-10-30
; PRIOR APPLICATION NUMBER: US 60/108,184
; PRIOR FILING DATE: 1998-11-12
; PRIOR APPLICATION NUMBER: US 60/123,675
; PRIOR FILING DATE: 1999-03-09
; NUMBER OF SEQ ID NOS: 3
; SOFTWARE: WordPerfect 8.0 for Windows
; SEQ ID NO 3
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: synthetic peptide (CII amino acids 261-273)
US-09-768-872-3

Query Match 92.6%; Score 50; DB 3; Length 13;
Best Local Similarity 90.0%; Pred. No. 0.035;
Matches 9; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1 FKGEQAPKGE 10
|||||
Db 3 FKGEQGPKE 12

RESULT 2
US-10-438-538-2
; Sequence 2, Application US/10438538

Publication No. US20040006022A1

GENERAL INFORMATION:

APPLICANT: Strominger, Jack L.
APPLICANT: Fridkies-Hareli, Masha
TITLE OF INVENTION: Synthetic Peptides and Methods of use for Autoimmune
FILE REFERENCE: 24655-013DIV2
CURRENT APPLICATION NUMBER: US/10/438,538
CURRENT FILING DATE: 2003-05-15
PRIOR FILING DATE: 1999-07-22
PRIOR APPLICATION NUMBER: 60/093,859
PRIOR FILING DATE: 1998-07-23
PRIOR APPLICATION NUMBER: 60/123,675
PRIOR FILING DATE: 1999-03-09
NUMBER OF SEQ ID NOS: 59
SOFTWARE: PatentIn Ver. 2.1
SEQ ID NO 2
LENGTH: 13
TYPE: PRT
ORGANISM: Homo sapiens collagen II
;-10-438-538-2

Query Match 92.6%; Score 50; DB 4; Length 13;
Best Local Similarity 90.0%; Pred. No. 0.035;
Matches 9; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

1 FKGEQAPKGE 10
|||||
3 FKGEQGPKE 12

RESULT 3

;-10-438-538-3

Sequence 3, Application US/10438538

Publication No. US20040006022A1

GENERAL INFORMATION:

APPLICANT: Strominger, Jack L.
APPLICANT: Fridkies-Hareli, Masha
TITLE OF INVENTION: Synthetic Peptides and Methods of use for Autoimmune
FILE REFERENCE: 24655-013DIV2
CURRENT APPLICATION NUMBER: US/10/438,538
CURRENT FILING DATE: 2003-05-15
PRIOR FILING DATE: 1999-07-22
PRIOR APPLICATION NUMBER: 60/093,859
PRIOR FILING DATE: 1998-07-23
PRIOR APPLICATION NUMBER: 60/123,675
PRIOR FILING DATE: 1999-03-09
NUMBER OF SEQ ID NOS: 59
SOFTWARE: PatentIn Ver. 2.1
SEQ ID NO 3
LENGTH: 15
TYPE: PRT
ORGANISM: Artificial Sequence
FEATURE:
OTHER INFORMATION: Description of Artificial Sequence: Synthetic
OTHER INFORMATION: peptide of predetermined sequence for testing of
OTHER INFORMATION: activity in MHC Class II assays, control collagen
OTHER INFORMATION: II bracketed by alanine residues.
FEATURE:
NAME/KEY: SITE
LOCATION: (1)..(15)

;-10-438-538-3

Query Match 92.6%; Score 50; DB 4; Length 15;
Best Local Similarity 90.0%; Pred. No. 0.04;
Matches 9; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

1 FKGEQAPKGE 10
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4 FKGEQGPKE 13

RESULT 4

US-10-194-441A-6

; Sequence 6, Application US/10194441A
; Publication No. US20030148944A1
; GENERAL INFORMATION:
; APPLICANT: Holmdahl, Rikard
; APPLICANT: Egstrom, Jan Ake
; APPLICANT: Kihlberg, Jan
; APPLICANT: Burkhardt, Harald
; TITLE OF INVENTION: TRIPLE POLYPEPTIDE COMPLEXES
; FILE REFERENCE: 11145-010001
; CURRENT APPLICATION NUMBER: US/10/194,441A
; CURRENT FILING DATE: 2002-07-11
; PRIOR APPLICATION NUMBER: US 60/305,048
; PRIOR FILING DATE: 2001-07-12
; NUMBER OF SEQ ID NOS: 87
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 6
; LENGTH: 16
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-194-441A-6

Query Match 92.6%; Score 50; DB 4; Length 16;
Best Local Similarity 90.0%; Pred. No. 0.043;
Matches 9; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy 1 FKGEQAPKGE 10
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Db 5 FKGEQGPKE 14

RESULT 5

US-10-194-441A-27

; Sequence 27, Application US/10194441A

; Publication No. US20030148944A1

GENERAL INFORMATION:

APPLICANT: Holmdahl, Rikard
APPLICANT: Egstrom, Jan Ake
APPLICANT: Kihlberg, Jan
APPLICANT: Burkhardt, Harald
TITLE OF INVENTION: TRIPLE POLYPEPTIDE COMPLEXES
FILE REFERENCE: 11145-010001
CURRENT APPLICATION NUMBER: US/10/194,441A
CURRENT FILING DATE: 2002-07-11
PRIOR APPLICATION NUMBER: US 60/305,048
PRIOR FILING DATE: 2001-07-12
NUMBER OF SEQ ID NOS: 87
SOFTWARE: FastSeq for Windows Version 4.0
SEQ ID NO 27
LENGTH: 16
TYPE: PRT
ORGANISM: Artificial Sequence
FEATURE:
OTHER INFORMATION: Synthetic
FEATURE:
NAME/KEY: MOD_RES
LOCATION: 15_RES
OTHER INFORMATION: hydroxyproline

US-10-194-441A-27

Query Match 92.6%; Score 50; DB 4; Length 16;
Best Local Similarity 90.0%; Pred. No. 0.043;
Matches 9; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy 1 FKGEQAPKGE 10
|||||
Db 5 FKGEQGPKE 14

RESULT 6

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protein - protein search, using sw model

n on: June 23, 2006, 21:26:16 ; Search time 22 seconds
(without alignments)
10.384 Million cell updates/sec

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fect score: 54

quence: 1 FKGEQAPKGE 10

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tal number of hits satisfying chosen parameters: 99297

imum DB seq length: 0

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Published Applications AA New.*

- 1: /EMC_Celerra_SID33/ptodata/1/pubpaa/US09_NEW_PUB.pap.*
- 2: /EMC_Celerra_SID33/ptodata/1/pubpaa/US06_NEW_PUB.pap.*
- 3: /EMC_Celerra_SID33/ptodata/1/pubpaa/US07_NEW_PUB.pap.*
- 4: /EMC_Celerra_SID33/ptodata/1/pubpaa/US08_NEW_PUB.pap.*
- 5: /EMC_Celerra_SID33/ptodata/1/pubpaa/PCT_NEW_PUB.pap.*
- 6: /EMC_Celerra_SID33/ptodata/1/pubpaa/US10_NEW_PUB.pap.*
- 7: /EMC_Celerra_SID33/ptodata/1/pubpaa/US11_NEW_PUB.pap.*
- 8: /EMC_Celerra_SID33/ptodata/1/pubpaa/US60_NEW_PUB.pap.*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

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1	50	92.6	13	7 US-11-298-718-1	Sequence 1, Appli
2	50	92.6	13	7 US-11-298-718-40	Sequence 40, Appl
3	50	92.6	27	7 US-11-298-718-23	Sequence 23, Appl
4	50	92.6	31	7 US-11-298-718-25	Sequence 25, Appl
5	50	92.6	33	7 US-11-298-718-26	Sequence 26, Appl
6	45	83.3	14	7 US-11-261-429-25	Sequence 25, Appl
7	45	83.3	32	7 US-11-298-718-27	Sequence 27, Appl
8	38	70.4	744	6 US-10-505-928-493	Sequence 493, App
9	35	64.8	1366	6 US-10-985-570-3	Sequence 3, Appli
10	35	64.8	1466	6 US-10-985-570-1	Sequence 1, Appli
11	34	63.0	370	6 US-10-471-571A-5028	Sequence 5028, Ap
12	33	61.1	259	6 US-10-953-349-16938	Sequence 16938, A
13	33	61.1	289	6 US-10-953-349-16937	Sequence 16937, A
14	33	61.1	292	6 US-10-449-902-31422	Sequence 31422, A
15	33	61.1	324	6 US-10-471-571A-430	Sequence 430, App
16	33	61.1	366	6 US-10-449-902-47117	Sequence 47117, A
17	33	61.1	377	6 US-10-449-902-53595	Sequence 53595, A
18	33	61.1	385	6 US-10-953-349-16936	Sequence 16936, A
19	33	61.1	487	6 US-10-449-902-54259	Sequence 54259, A
20	33	61.1	542	6 US-10-471-571A-484	Sequence 4844, Ap
21	33	61.1	679	6 US-10-449-902-43110	Sequence 43110, A
22	32	59.3	220	6 US-10-449-902-46725	Sequence 46725, A
23	32	59.3	224	6 US-10-449-902-37715	Sequence 37715, A
24	32	59.3	251	6 US-10-953-349-35951	Sequence 35951, A
25	32	59.3	260	6 US-10-953-349-13883	Sequence 13883, A

26	59.3	290	6	US-10-449-902-31197	Sequence 31197, A
27	59.3	290	6	US-10-449-902-54573	Sequence 54573, A
28	59.3	335	6	US-10-449-902-56163	Sequence 56163, A
29	59.3	356	6	US-10-449-902-55629	Sequence 55629, A
30	59.3	390	6	US-10-471-571A-1618	Sequence 1618, Ap
31	59.3	480	6	US-10-449-902-44467	Sequence 44467, A
32	59.3	571	6	US-10-449-902-50485	Sequence 50485, A
33	59.3	621	7	US-11-293-697-3069	Sequence 3069, Ap
34	59.3	674	6	US-10-449-902-50138	Sequence 50138, A
35	59.3	717	6	US-10-505-928-438	Sequence 438, App
36	59.3	883	7	US-11-297-383-11	Sequence 11, Appl
37	59.3	1279	6	US-10-449-902-53956	Sequence 53956, A
38	58.3	254	6	US-10-953-349-14195	Sequence 14195, A
39	58.3	295	6	US-10-953-349-14194	Sequence 14194, A
40	58.3	364	6	US-10-953-349-14193	Sequence 14193, A
41	57.4	96	6	US-10-449-902-34935	Sequence 34935, A
42	57.4	178	6	US-10-953-349-6151	Sequence 6151, Ap
43	57.4	187	6	US-10-953-349-31496	Sequence 31496, A
44	57.4	213	6	US-10-953-349-31495	Sequence 31495, A
45	57.4	239	6	US-10-953-349-24974	Sequence 24974, A

ALIGNMENTS

RESULT 1
US-11-298-718-1
; Sequence 1, Application US/11298718
; Publication No. US20060088544A1
; GENERAL INFORMATION:
; APPLICANT: Zimmerman, Daniel
; TITLE OF INVENTION: PEPTIDE CONSTRUCTS FOR TREATMENT OF AUTOIMMUNE AND HGV CONDITIONS
; FILE REFERENCE: CS-111
; CURRENT APPLICATION NUMBER: US/11/298,718
; CURRENT FILING DATE: 2005-12-12
; PRIOR APPLICATION NUMBER: US/10/111,645
; PRIOR FILING DATE: 2002-04-26
; NUMBER OF SEQ ID NOS: 52
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 1
; LENGTH: 13
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: peptide construct
US-11-298-718-1

Query Match 92.6%; Score 50; DB 7; Length 13;
Best Local Similarity 90.0%; Pred. No. 0.0012;
Matches 9; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1 FKGEQAPKGE 10
Db 4 FKGEQGPKE 13

RESULT 2
US-11-298-718-40
; Sequence 40, Application US/11298718
; Publication No. US20060088544A1
; GENERAL INFORMATION:
; APPLICANT: Zimmerman, Daniel
; TITLE OF INVENTION: PEPTIDE CONSTRUCTS FOR TREATMENT OF AUTOIMMUNE AND HGV CONDITIONS
; FILE REFERENCE: CS-111
; CURRENT APPLICATION NUMBER: US/11/298,718
; CURRENT FILING DATE: 2005-12-12
; PRIOR APPLICATION NUMBER: US/10/111,645
; PRIOR FILING DATE: 2002-04-26
; NUMBER OF SEQ ID NOS: 52
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 40
; LENGTH: 13
; TYPE: PRT

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ORGANISM: Artificial Sequence
FEATURE:
OTHER INFORMATION: peptide construct
:-11-298-718-40
Query Match          92.6%; Score 50; DB 7; Length 13;
Best Local Similarity 90.0%; Pred. No. 0.0012;
Matches 9; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

1 FKGEQAPKGE 10
|||||
4 FKGEQGPKE 13.

:SUlt 3
:-11-298-718-23
Sequence 23, Application US/11298718
Publication No. US20060088544A1
GENERAL INFORMATION:
APPLICANT: Zimmerman, Daniel
TITLE OF INVENTION: PEPTIDE CONSTRUCTS FOR TREATMENT OF AUTOIMMUNE AND HGV CONDITIONS
FILE REFERENCE: CS-111
CURRENT APPLICATION NUMBER: US/11/298,718
CURRENT FILING DATE: 2005-12-12
PRIOR APPLICATION NUMBER: US/10/111,645
PRIOR FILING DATE: 2002-04-26
NUMBER OF SEQ ID NOS: 52
SOFTWARE: PatentIn version 3.1
SEQ ID NO 23
LENGTH: 27
TYPE: PRT
ORGANISM: Artificial Sequence
FEATURE:
OTHER INFORMATION: peptide construct
:-11-298-718-23
Query Match          92.6%; Score 50; DB 7; Length 27;
Best Local Similarity 90.0%; Pred. No. 0.0025;
Matches 9; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

1 FKGEQAPKGE 10
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18 FKGEQGPKE 27

:SUlt 4
:-11-298-718-25
Sequence 25, Application US/11298718
Publication No. US20060088544A1
GENERAL INFORMATION:
APPLICANT: Zimmerman, Daniel
TITLE OF INVENTION: PEPTIDE CONSTRUCTS FOR TREATMENT OF AUTOIMMUNE AND HGV CONDITIONS
FILE REFERENCE: CS-111
CURRENT APPLICATION NUMBER: US/11/298,718
CURRENT FILING DATE: 2005-12-12
PRIOR APPLICATION NUMBER: US/10/111,645
PRIOR FILING DATE: 2002-04-26
NUMBER OF SEQ ID NOS: 52
SOFTWARE: PatentIn version 3.1
SEQ ID NO 25
LENGTH: 31
TYPE: PRT
ORGANISM: Artificial Sequence
FEATURE:
OTHER INFORMATION: peptide construct
:-11-298-718-25
Query Match          92.6%; Score 50; DB 7; Length 31;
Best Local Similarity 90.0%; Pred. No. 0.0029;
Matches 9; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

1 FKGEQAPKGE 10
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ORGANISM: Artificial Sequence
FEATURE:
OTHER INFORMATION: peptide construct
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Query Match          92.6%; Score 50; DB 7; Length 33;
Best Local Similarity 90.0%; Pred. No. 0.0031;
Matches 9; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

1 FKGEQAPKGE 10
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24 FKGEQGPKE 33

:SUlt 5
:-11-298-718-26
Sequence 26, Application US/11298718
Publication No. US20060088544A1
GENERAL INFORMATION:
APPLICANT: Zimmerman, Daniel
TITLE OF INVENTION: PEPTIDE CONSTRUCTS FOR TREATMENT OF AUTOIMMUNE AND HGV CONDITIONS
FILE REFERENCE: CS-111
CURRENT APPLICATION NUMBER: US/11/298,718
CURRENT FILING DATE: 2005-12-12
PRIOR APPLICATION NUMBER: US/10/111,645
PRIOR FILING DATE: 2002-04-26
NUMBER OF SEQ ID NOS: 52
SOFTWARE: PatentIn version 3.1
SEQ ID NO 26
LENGTH: 33
TYPE: PRT
ORGANISM: Artificial Sequence
FEATURE:
OTHER INFORMATION: peptide construct
:-11-298-718-26
Query Match          92.6%; Score 50; DB 7; Length 33;
Best Local Similarity 90.0%; Pred. No. 0.0031;
Matches 9; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

1 FKGEQAPKGE 10
|||||
24 FKGEQGPKE 33

:SUlt 6
:-11-261-429-25
Sequence 25, Application US/11261429
Publication No. US20060115899A1
GENERAL INFORMATION:
APPLICANT: Buckner, Jane H.
TITLE OF INVENTION: METHODS OF GENERATING ANTIGEN-SPECIFIC CD4+CD25+ REGULATORY T
FILE REFERENCE: BRIVN-1-26413
CURRENT APPLICATION NUMBER: US/11/261,429
CURRENT FILING DATE: 2005-10-28
PRIOR APPLICATION NUMBER: US 60/623,380
PRIOR FILING DATE: 2004-10-29
NUMBER OF SEQ ID NOS: 65
SOFTWARE: PatentIn version 3.2
SEQ ID NO 25
LENGTH: 14
TYPE: PRT
ORGANISM: Homo Sapiens
:-11-261-429-25
Query Match          83.3%; Score 45; DB 7; Length 14;
Best Local Similarity 88.9%; Pred. No. 0.011;
Matches 8; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

1 FKGEQAPKGE 9
|||||
6 FKGEQGPKE 14

:SUlt 7
:-11-298-718-27
Sequence 27, Application US/11298718
Publication No. US20060088544A1
GENERAL INFORMATION:
APPLICANT: Zimmerman, Daniel
TITLE OF INVENTION: PEPTIDE CONSTRUCTS FOR TREATMENT OF AUTOIMMUNE AND HGV CONDITIONS
FILE REFERENCE: CS-111
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GenCore version 5.1.9
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protein - protein search, using sw model

n on: June 23, 2006, 21:13:50 ; Search time 52 Seconds
(without alignments)

16.833 Million cell updates/sec

file: US-10-519-524-2

rfect score: 54

quence: 1 FKGEQAPKGE 10

oring table: BLOSUM62

Gapop 10.0 , Gapext 0.5

arched: 650591 seqs, 87530628 residues

tal number of hits satisfying chosen parameters: 650591

nimum DB seq length: 0

ximum DB seq length: 2000000000

st-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

Database :

Issued Patents AA:*

- 1: /EMC Celerra_SIDS3/prodata/2/iaa/5 COMB.pep.*
- 2: /EMC Celerra_SIDS3/prodata/2/iaa/6 COMB.pep.*
- 3: /EMC Celerra_SIDS3/prodata/2/iaa/7 COMB.pep.*
- 4: /EMC Celerra_SIDS3/prodata/2/iaa/H COMB.pep.*
- 5: /EMC Celerra_SIDS3/prodata/2/iaa/PCTUS_COMB.pep.*
- 6: /EMC Celerra_SIDS3/prodata/2/iaa/RE_COMB.pep.*
- 7: /EMC Celerra_SIDS3/prodata/2/iaa/backfiles1.pep.*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

sult No.	Score	Query Match	Length	DB ID	Description
1	50	92.6	13	2	US-10-111-645A-1
2	50	92.6	13	2	US-10-111-645A-40
3	50	92.6	13	5	PCT-US96-00206-2
4	50	92.6	16	5	PCT-US96-00206-4
5	50	92.6	27	2	US-10-111-645A-23
6	50	92.6	31	2	US-10-111-645A-25
7	50	92.6	33	2	US-10-111-645A-26
8	50	92.6	53	1	US-08-316-650-10
9	50	92.6	53	2	US-08-479-722B-10
10	50	92.6	53	2	US-08-592-685-10
11	50	92.6	53	5	PCT-US95-02251-10
12	50	92.6	279	2	US-09-010-999-2
13	50	92.6	492	2	US-08-468-996-11
14	50	92.6	1017	2	US-08-468-996-10
15	50	92.6	1060	2	US-08-931-820-3
16	50	92.6	1418	2	US-08-963-825-20
17	50	92.6	1418	2	US-09-010-999-1
18	50	92.6	1418	2	US-09-500-811-20
19	50	92.6	1418	2	US-09-570-573-20
20	50	92.6	1418	2	US-09-548-608-20
21	47	87.0	1442	1	US-08-316-650-12
22	47	87.0	1442	5	PCT-US95-02251-12
23	45	83.3	32	2	US-10-111-645A-27
24	41	75.9	1739	2	US-09-795-061-2
25	39	72.2	9	2	US-08-159-339A-816
26	39	72.2	10	2	US-08-159-339A-833

27	39	72.2	13	5	PCT-US96-00206-3	Sequence 3, Appli
28	39	72.2	22	1	US-08-521-871A-5	Sequence 5, Appli
29	39	72.2	26	1	US-07-951-565-1	Sequence 1, Appli
30	39	72.2	26	1	US-07-951-565-6	Sequence 6, Appli
31	39	72.2	26	1	US-08-246-242-9	Sequence 9, Appli
32	39	72.2	26	2	US-08-425-175D-5	Sequence 5, Appli
33	39	72.2	26	5	PCT-US96-00206-1	Sequence 1, Appli
34	38	70.4	26	2	US-08-425-175D-3	Sequence 3, Appli
35	38	70.4	375	2	US-09-600-932-29	Sequence 29, Appli
36	38	70.4	744	2	US-09-949-016-9607	Sequence 9607, Ap
37	37	68.5	159	2	US-09-732-210-832	Sequence 832, App
38	37	68.5	291	2	US-09-902-540-13879	Sequence 13879, A
39	37	68.5	752	2	US-10-104-047-1975	Sequence 1975, Ap
40	36	66.7	78	2	US-09-621-976-4720	Sequence 4720, Ap
41	36	66.7	90	2	US-09-397-787-17	Sequence 17, Appli
42	36	66.7	120	2	US-09-949-016-8529	Sequence 8529, Ap
43	36	66.7	120	2	US-09-949-016-9471	Sequence 9471, Ap
44	36	66.7	123	2	US-09-949-016-10319	Sequence 10319, A
45	36	66.7	259	2	US-09-006-353A-2	Sequence 2, Appli

ALIGNMENTS

RESULT 1
US-10-111-645A-1
; Sequence 1, Application US/10111645A
; Patent No. 6995237
; GENERAL INFORMATION:
; APPLICANT: Zimmerman, Daniel
; TITLE OF INVENTION: PEPTIDE CONSTRUCTS FOR TREATMENT OF AUTOIMMUNE AND HGV CONDITIONS
; FILE REFERENCE: CS-111
; CURRENT APPLICATION NUMBER: US/10/111,645A
; CURRENT FILING DATE: 2002-04-26
; NUMBER OF SEQ ID NOS: 52
; SOFTWARE: Patentin version 3.1
; SEQ ID NO 1
; LENGTH: 13
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: peptide construct
US-10-111-645A-1

Query Match 92.6%; Score 50; DB 2; Length 13;
Best Local Similarity 90.0%; Pred. No. 0.029;
Matches 9; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy 1 FKGEQAPKGE 10
Db 4 FKGEQGPKE 13

RESULT 2
US-10-111-645A-40
; Sequence 40, Application US/10111645A
; Patent No. 6995237
; GENERAL INFORMATION:
; APPLICANT: Zimmerman, Daniel
; TITLE OF INVENTION: PEPTIDE CONSTRUCTS FOR TREATMENT OF AUTOIMMUNE AND HGV CONDITIONS
; FILE REFERENCE: CS-111
; CURRENT APPLICATION NUMBER: US/10/111,645A
; CURRENT FILING DATE: 2002-04-26
; NUMBER OF SEQ ID NOS: 52
; SOFTWARE: Patentin version 3.1
; SEQ ID NO 40
; LENGTH: 13
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: peptide construct
US-10-111-645A-40

Query Match 92.6%; Score 50; DB 2; Length 13;
Best Local Similarity 90.0%; Pred. No. 0.029; Indels 1; Gaps 0;
Matches 9; Conservative 0; Mismatches 1; Indels 1; Gaps 0;
1 FKGEQAPKGE 10
|||||
4 FKGEQGPKE 13

RESULT 3
T-US96-00206-2
Sequence 2, Application PC/TUS9600206
GENERAL INFORMATION:
APPLICANT: Immunologic Pharmaceutical Corporation
TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR
TREATING RHEUMATOID ARTHRITIS
NUMBER OF SEQUENCES: 7
CORRESPONDENCE ADDRESS:
ADDRESSEE: Lappin & Kusner
STREET: 200 State Street
CITY: Boston
STATE: MA
COUNTRY: USA
ZIP: 02109
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PatentIn Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: PCT/US96/00206
FILING DATE:

CLASSIFICATION:
ATTORNEY/AGENT INFORMATION:
NAME: Kerner, Ann-Louise
REGISTRATION NUMBER: 33,523
REFERENCE/DOCKET NUMBER: IMZ-014PCT
TELECOMMUNICATION INFORMATION:
TELEPHONE: 617-466-6000
TELEFAX: 617-466-6040
INFORMATION FOR SEQ ID NO: 2:
SEQUENCE CHARACTERISTICS:
LENGTH: 13 amino acids
TYPE: amino acid
TOPOLOGY: linear
MOLECULE TYPE: peptide
FRAGMENT TYPE: internal
ORIGINAL SOURCE:
ORGANISM: Bos taurus type II collagen
PCT-US96-00206-2

Query Match 92.6%; Score 50; DB 5; Length 13;
Best Local Similarity 90.0%; Pred. No. 0.029; Indels 1; Gaps 0;
Matches 9; Conservative 0; Mismatches 1; Indels 1; Gaps 0;
1 FKGEQAPKGE 10
|||||
3 FKGEQGPKE 12

RESULT 4
T-US96-00206-4
Sequence 4, Application PC/TUS9600206
GENERAL INFORMATION:
APPLICANT: Immunologic Pharmaceutical Corporation
TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR
TREATING RHEUMATOID ARTHRITIS
NUMBER OF SEQUENCES: 7
CORRESPONDENCE ADDRESS:
ADDRESSEE: Lappin & Kusner
STREET: 200 State Street
CITY: Boston
STATE: MA

COUNTRY: USA
ZIP: 02109
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PatentIn Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: PCT/US96/00206
FILING DATE:
CLASSIFICATION:
ATTORNEY/AGENT INFORMATION:
NAME: Kerner, Ann-Louise
REGISTRATION NUMBER: 33,523
REFERENCE/DOCKET NUMBER: IMZ-014PCT
TELECOMMUNICATION INFORMATION:
TELEPHONE: 617-466-6000
TELEFAX: 617-466-6040
INFORMATION FOR SEQ ID NO: 4:
SEQUENCE CHARACTERISTICS:
LENGTH: 16 amino acids
TYPE: amino acid
TOPOLOGY: linear
MOLECULE TYPE: peptide
FRAGMENT TYPE: internal
ORIGINAL SOURCE:
ORGANISM: Bos taurus type II collagen
PCT-US96-00206-4

Query Match 92.6%; Score 50; DB 5; Length 16;
Best Local Similarity 90.0%; Pred. No. 0.036; Indels 1; Gaps 0;
Matches 9; Conservative 0; Mismatches 1; Indels 1; Gaps 0;
1 FKGEQAPKGE 10
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6 FKGEQGPKE 15

RESULT 5
US-10-111-645A-23
Sequence 23, Application US/10111645A
Patent No. 6995237
GENERAL INFORMATION:
APPLICANT: Zimmermann, Daniel
TITLE OF INVENTION: PEPTIDE CONSTRUCTS FOR TREATMENT OF AUTOIMMUNE AND HGV CONDITIONS
FILE REFERENCE: CS-111
CURRENT APPLICATION NUMBER: US/10/111,645A
CURRENT FILING DATE: 2002-04-26
NUMBER OF SEQ ID NOS: 52
SOFTWARE: PatentIn version 3.1
SEQ ID NO 23
LENGTH: 27
TYPE: PRT
ORGANISM: Artificial Sequence
FEATURE:
OTHER INFORMATION: peptide construct
US-10-111-645A-23

Query Match 92.6%; Score 50; DB 2; Length 27;
Best Local Similarity 90.0%; Pred. No. 0.059; Indels 1; Gaps 0;
Matches 9; Conservative 0; Mismatches 1; Indels 1; Gaps 0;
1 FKGEQAPKGE 10
|||||
18 FKGEQGPKE 27

RESULT 6
US-10-111-645A-25
Sequence 25, Application US/10111645A
Patent No. 6995237
GENERAL INFORMATION:
APPLICANT: Zimmermann, Daniel